

Date: Fri, 10 Jun 94 04:30:22 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V94 #177
To: Ham-Ant

Ham-Ant Digest Fri, 10 Jun 94 Volume 94 : Issue 177

Today's Topics:

 --> Need Antenna Specs! <-- (2 msgs)
 Antenna FTPs
 Comet "Miracle Baby" 2m HT Antenna
 GAP Titan vs MFJ-1798 vs R-7 (?)
 Has anyone used NLNEC?
 Way to increase power of whip antenna on FM receiver?
 Yagi ant program

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 9 Jun 1994 14:23:04 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: --> Need Antenna Specs! <--
To: ham-ant@ucsd.edu

In article <2s9fdh\$ouk@usenet.INS.CWRU.Edu>,
ew032@cleveland.Freenet.Edu (Steve A. Miller) writes:

The easiest 2m/440 ant there is to build is the S0239 ground plane.
here's how to build it:

Parts list:

1-S0239
4-peices #12 Copper wire stripped @ 20 3/16" (you can also use
brazing wire 3/32")

1-#12 Copper wire stripped 19 5/16" (you can use 3/32 brazing wire)
4-small nuts and bolts (to fit your mounting holes in the so239)
solder and a torch

Construction:

Bend a loop in the ends of the four radials to accept the bolts, mount them around the S0239 one at a time, be careful not to apply too much heat, you can very easily melt the insulator. Let the project cool down after each radial is attached. Once you have attached all four radial, attach the radiator (driven element). You must bend all four radials to 45 deg. downward. That's all there is to it.

Tune it as needed, you should achieve a very good match at 146 and 446 (less than 1.2/1)

Have fun

Randy

Date: 9 Jun 1994 20:12:01 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!msuinfo!netnews.upenn.edu!
eniac.seas.upenn.edu!depolo@network.ucsd.edu
Subject: --> Need Antenna Specs! <--
To: ham-ant@ucsd.edu

In article <2t7mm8\$dr5@search01.news.aol.com> randy753@aol.com (Randy753) writes:
>In article <2s9fdh\$ouk@usenet.INS.CWRU.Edu>,
>ew032@cleveland.Freenet.Edu (Steve A. Miller) writes:
>
>The easiest 2m/440 ant there is to build is the S0239 ground plane.
>here's how to build it:

[deleted - basically you make a 1/4 wave 2m groundplane]

>Tune it as needed, you should achieve a very good match at 146 and 446
>(less than 1.2/1)

You get a decent match, but terrible 440 performance. The 1/4 wave on 2m acts like a 3/4 wave on 440, having a major lobe at a high angle from the horizon, which might be OK for talking to the birds, but not to terrestrial stations like repeaters or mobiles.

By putting a coil at the bottom and shortening the radiator to approx. 15.5", you should be able to get a 5/8 wave whip on 440 and a slightly-base-loaded 1/4 wave on 2m. You'll end up with a dual-band antenna that has much better

440 performance than a 3/4 wave whip. Just a thought...

--- Jeff

--

Jeff DePolo WN3A Twisted Pair: (215) 337-7383H 387-3059W
depolo@eniac.seas.upenn.edu RF: 443.800+ MHz 442.400+ MHz 24.150 GHz

Date: Thu, 9 Jun 1994 15:47:06 GMT
From: ihnp4.ucsd.edu!swrinde!pipex!bbc!ant!boyer@network.ucsd.edu
Subject: Antenna FTPs
To: ham-ant@ucsd.edu

John Hess (johnhess@indial1.io.com) wrote:
: I am a fairly new InterNet user. Are there any FTPs that specialize in
: (or have) programming for antenna design?

: John Hess
: johnhess@indial1.io.com

try ftp.netcom.com in the pub/rander/NEC directory.

John B
John.boyer@rd.eng.bbc.co.uk

Date: Thu, 9 Jun 1994 16:49:33 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!gatech!nntp.msstate.edu!saimiri.primate.wisc.edu!
sal.wisc.edu!zimmer!zimmer.csufresno.edu!rafaels@network.ucsd.
Subject: Comet "Miracle Baby" 2m HT Antenna
To: ham-ant@ucsd.edu

Any experiences with this little (2 in.) rubber thingy? Is it worth it to
spend \$37 for just a smaller size than a regular rubber ducky? I own a Yaesu
FT11R and I thought that this antenna could complement this xceiver because of
its size. Thanks.

73,

Rafael
(waiting for ticket)

Rafael Solis, Professor Craig School of Business
rafaels@zimmer.csufresno.edu California State University, Fresno
(209)278-2194 (209)278-4911 (Fax)

Date: 9 Jun 1994 15:03:25 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!news.acns.nwu.edu!
usenet@network.ucsd.edu
Subject: GAP Titan vs MFJ-1798 vs R-7 (?)
To: ham-ant@ucsd.edu

In article <2t57l5\$sg7@news.ysu.edu> ap451@yfn.ysu.edu (Justin Randall Padawer) writes:

>
>Since the magazines are too afraid to do a real head-to-head
>comparison of the three no-radials all-band HF verticals,
>why don't we try to put something together here? (The
>get-a-beam and get-a-real-radial-vertical comments would
>be unwelcome; the purpose would be to compare these three
>space-compromise antennas.) Anyone who has had experience
>with 1) the GAP Titan, a brand new no-radial 80-10 offering,
>or its mini-radial cousin, the GAP Challenger, 2) the
>finally-shipping MFJ 10-band Model 1798, or 3) the 40-10
>meter no-radial trap vertical, the Cushcraft R-7, please
>forward your comments. I'll post a comprehensive summary.

The only antenna of the above with which I have experience is a GAP Voyager IV - which is a compromise antenna - no kidding. Is that similar to a GAP Titan? This antenna is 45 feet tall with a six foot dia top hat. Worked well on 40, mediocre to bad on 20, bad on 80 and sucked boulders on 160. Since you do not want to hear about real-radial-vertical I will not bore you with the details of how a Cushcraft AP8A beat it in every band in head to head comparison for DX reception. Yes, the AP8A has four sets of five radials (for different bands) in a ground plane configuration, abt 10 ft off the terra firma.

I have counseled a number of hams in my club to use regular multiband verticals with radials instead of the much more expensive compromises. It is not question that an R7 requires much less real estate. However, the radials are not that hard to put up. Even one radial will provide good but directional coverage. You can load them with coils, lay them on a roof (not great but better than having a 3 foot stub), bend them etc preferably not slope up or switch back.

Rajiv

aa9ch
r-dewan@nwu.edu

Date: Thu, 9 Jun 1994 16:47:10 GMT
From: news!wrs.com!jerald@uunet.uu.net
Subject: Has anyone used NLNEC?
To: ham-ant@ucsd.edu

Has anyone out there used NLNEC, the antenna modeling package
for the PC that is sold for \$49.00?

How does it compare to mininec or nec2 or any of the other
antenna modeling packages out there?

If someone is a NLNEC licensee, how is the documentation?
At what level of expertise is the documentation directed?

Many Thanks,

73 de KC6RT0
Jerry Pendleton

--
Jerald R. Pendleton Email: jerald@wrs.com, Personal Email: jrpend@netcom.com
The preceeding message represents only the opinon of the author. This
do not represent the opinions/positions of Wind River Systems, my mother,
my wife or my poodle.

Date: 9 Jun 1994 17:36:36 GMT
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!netline-fddi.jpl.nasa.gov!
marsupial.jpl.nasa.gov!zipkid.jpl.nasa.gov!kirk@network.ucsd.edu
Subject: Way to increase power of whip antenna on FM receiver?
To: ham-ant@ucsd.edu

I have a AM/FM radio with a whip-type FM antenna perhaps a meter
long. There is a marginal station I'd like to listen to. How
do I increase the capability of the antenna?

Thanks!

--
Kirk Reinholtz, kirk@zipcode.jpl.nasa.gov, 818-354-6419

Date: 8 Jun 94 03:00:00 GMT
From: dog.ee.lbl.gov!agate!iat.holonet.net!wwwswinc!
frank.mcjunks@ucbvax.berkeley.edu
Subject: Yagi ant program
To: ham-ant@ucsd.edu

I'm looking for an antenna design program for VHF/UHF quad/yagi type antennas. Someone suggested that I obtain a program called AO 6.0, but I'm not able to locate that program. Can anyone steer me towards either that program, or one that will allow me to plug in frequencies, and number of elements, and have the program do the work for me? I would prefer NOT to have a basic program, but will put up with it if that's all that's available.

--- Fmail 0.98+/RA 2.01+

* Origin: Boone's Farm BBS, Seattle, WA (206)282-2851 (1:343/124)

Date: Thu, 9 Jun 1994 14:15:55 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
dgf@network.ucsd.edu
To: ham-ant@ucsd.edu

References <tony.69.770946350@mpce.mq.edu.au>, <Cr1wys.EC1@ncifcrf.gov>,
<Cr39vu.6zH@world.std.com>
Subject : Re: Balloon

In article <Cr39vu.6zH@world.std.com> dts@world.std.com (Daniel T Senie) writes:
>In article <Cr1wys.EC1@ncifcrf.gov> mack@ncifcrf.gov (Joe Mack) writes:
>>the outer about every 5 secs. So make sure the cable is DC earthed. you
>>could fry your front end.

My Cushcraft 402BA (2L 40M) does this whenever it rains. Before I figured out what was happening, I left my Ten-Tec 509 & 405 on during a rainstorm, and it took out the *driver* of the argonaut (not the final) and the SWR bridge diodes in both the argonaut and the amplifier. Took me a while to find the "ticking" sound in my shack whenever it rained. All other antennas were DC grounded from factory - only the 402 has this "defect". 73 Dave WB0GAZ

End of Ham-Ant Digest V94 #177
